

Web Based EIAP Checklist

Web Based Tool to Simplify the Environmental Impact Analysis Process (EIAP)



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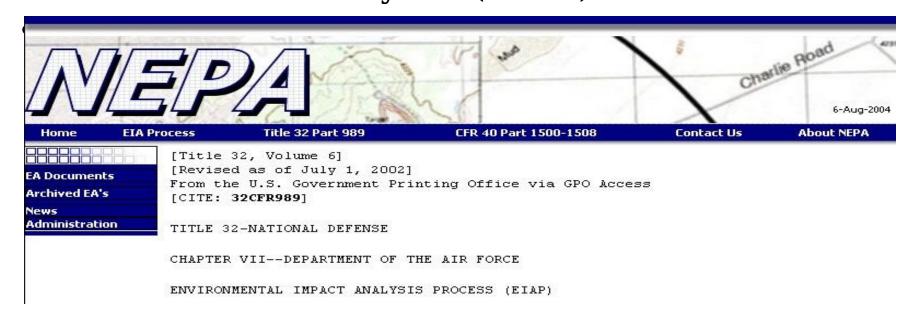
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CADD GIS Technology Center Internet URL: https://tsc.wes.army.mil



EIAP -

 Process Established for ensuring that new construction projects and major maintenance activities are in compliance with National Environmental Policy Act (NEPA).





National Environmental Policy Act

- First enacted in 1969. Has since been amended several times.
- Regulations issued by Council on Environmental Quality (CEQ).
- Compiled in Parts 1500-1508 of Code of Federal Regulations (CFR).
 - □ Federal agencies have compiled their own regulations and procedures for NEPA compliance.
- Enacted in response to growing concern about condition of environment, and about what human actions were doing to it.
 - □ Rapid industrialization during and after 1930s.
 - □ World War II
 - Development and increased use of toxic pesticides, fertilizers, & chemicals.
 - □ Rachel Carson's book entitled "Silent Spring" published in 1962.
 - Raised concern of long term effects of pesticides (e.g. DDT) in food chain.



National Environmental Policy Act

Purpose -

- Incorporate Environmental Considerations into Federal Agency Planning and Action by:
 - Establishing National Policy regarding Environment.
 - Requiring Federal Agencies prepare "Detailed Statement" of Environmental Impacts of any "Major Federal Action significantly affecting the Quality of Human Environment" (MFASAQHE).
 - Detailed Statement known as either:
 - Environmental Assessment (EA)
 - Environmental Impact Statement (EIS).



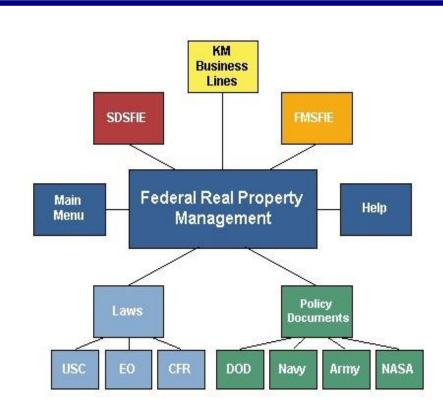
Steps for NEPA Compliand

- 1. Receive Mission/Project Assignment.
 - If construction, earth disturbance, or environmental disturbances are involved, you are in NEPA Process.
- 2. Assess Potential Environmental Impacts of Proposed Project. (Center EIAP)
- 3. Compare and Evaluate Potential Environmental Impacts of Alternative Courses of Action. (Center EIAP)
- 4. Prepare NEPA Document Comparing Potential Environmental Impacts of each Alternative Course of Action.
 - Document Environmental Assessment (EA) or Environmental Impact Statement (EIS).
- 5. Receive Comments and Input from Stakeholders (Federal, State, & Local Government & Public).
- 6. Record Final Decision (called Record of Decision (ROD).
 - NEPA Document (EA or EIS) and ROD are part of Administrative Record.



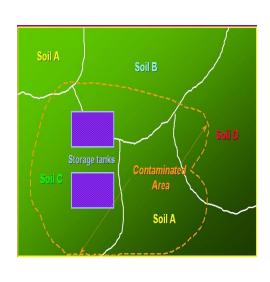
Federal Real Property Management (RPM) Website

- CADD/GIS Technology
 Center Web Site
 contains U.S. Codes,
 Executive Orders,
 Laws, & DoD/Federal
 Regulations governing
 acquisition,
 maintenance, and
 disposal of Federal Real
 Property holdings.
- Also Provides a
 Convenient Source of
 Environmental Legal
 Reportion Web Site U
 Requirements for NEPA



Report Web Site URL - https://rpm.wes.army.

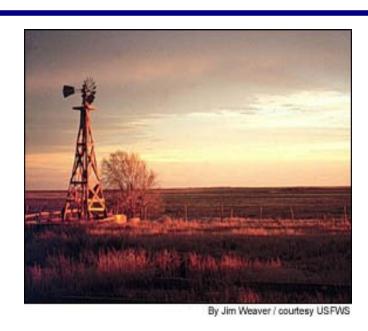
- CADD/GIS Technology Center developed Web-enabled EIAP (Environmental Planning Checklist) for use by all Federal Organizations to Facilitate Consistent Compliance with NEPA.
- CADD/GIS Technology Center's Environmental FWG Provided Project Oversight and Technical Expertise.
- Originated from EIAP Applications
 Developed by Robins AFB, Georgia
 and Patuxent River Naval Air Station
 (PAX), Maryland.
- Incorporates Spatial Data Standard





Primary Goals -

Develop Web-based
 Electronic Environmental
 Planning Checklist
 (decision tree) for
 Environmental Impact
 Analysis Process (EIAP).



 Incorporate Spatial Data Standard (SDSFIE) compliant GIS in EIAP.



- Center Project No. 01.040 Use of GIS to Simplify EIAP
- Status -

Part 1 - Completed in June 2002.

Part 2 - Completed in July 2003.

Part 3 - Begin in Fiscal Year 2004.

Project Website -

 $https://tsc.wes.army.mil/contacts/groups/FWG/Environmental/envprojects/01.040/01_040.htm$

- Go to CADD/GIS Technology Center Website: https://tsc.wes.army.mil
- Select "Environmental" from "Groups" Menu.
- Select "Active Projects"



- Web-based application requires installation on server with Microsoft Active Server Page (ASP) software.
- Can be accessed via Internet using Internet Explorer or Netscape browser. Requires download and installation of free Macromedia Shockwave Player plug-in.
- Checklist questions maintained in Microsoft Access Database.
- Defines Links to

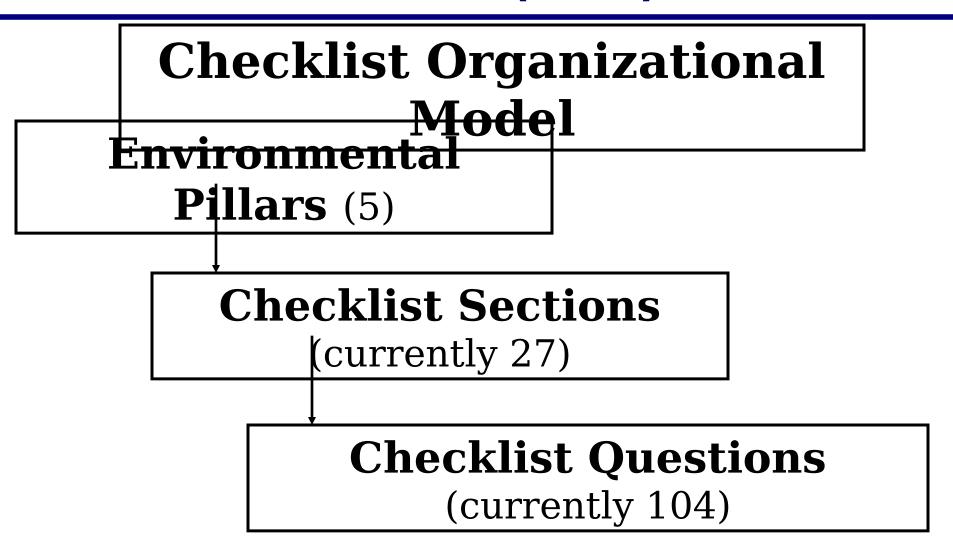


Welcome to Environmental Impact Analysis Process Checklist Website!

The CADD/GIS Technology Center's mission establishes a multi-agency vehicle to coordinate facilities, infrastructure, and environmental use of Computer-Aided Design and Drafting and Geographic Information Systems (CADD/GIS) activities within the Department of Defense (DoD) and with other participating governmental (federal, state and local) agencies, and the private sector. This includes setting standards, promoting system integration, supporting centralized acquisition, and providing assistance for the installation, training, operation, and maintenance of CADD/GIS and facilities management (FM) systems. This also includes directing specific application developments, promoting communications, developing and promoting standards, furnishing technical advice, interfacing with professional organizations and industry, evaluating technological developments, and recommending necessary CADD/GIS and FM policy to ensure the maximum benefits are received from these technologies.

The National Environmental Policy Act (NEPA) requires every federal agency to systematically evaluate the environmental effects of their proposal for projects and program. However, the statute implementing NEPA are not detailed. There have been several approaches on creating a guidance for implementing the NEPA. This website goal is to create a checklist that can address the federal aspects of this statute.







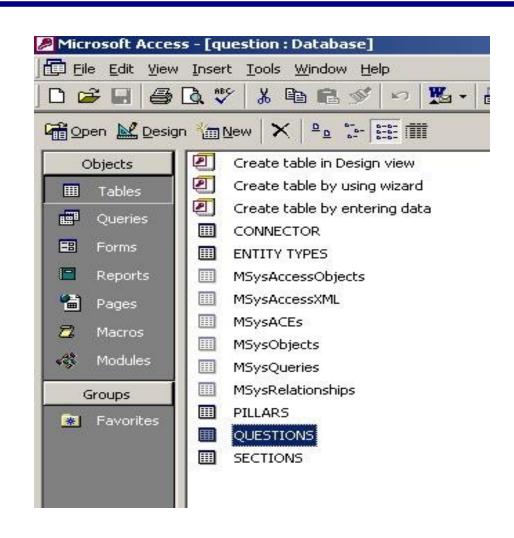
Environmental Pillars

1	Conservation			
2	Compliance			
3	Pollution			
	Prevention			
4	Restoration			
5	Other			



Checklist Database

- Microsoft Access 2000 Database.
- Designed to Permit Future Expansion.
- Nonproprietary.
- Designed to Work with Different Internet
 Programming Languages and Applications.



Checklist Database - Sections

Micros	oft Access - [SECTIONS : Table]		
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M - 1		1 21 多層	Table
SE	CTION SECTION_NAME	PILLAR	SECTION_TEXT
>	Soil Disturbance	1	This section addresses issues such as soil disturbance, wetlands impact, Nationwide Permits, Water Q
	2 Critical Area and Coastal Zone	1	This section consists of questions on the Critical Area, the 100-foot buffer and CZMA Federal Consistence
	3 Historic Preservation		This section addresses alterations, maintenance and repairs to structures eligible for the National Regist
	4 Endangered Species	-1	This section contains a question regarding potential impacts on rare, threatened and endangered species
	5 Land Use		This section consists of questions regarding proposed changes in land use and cover type and the propo
	6 Tree Clearing		This section addresses issues related to planned cutting or removal of trees, proper disposal of real estat
	7 Bird/Aircraft Strikes		This section contains questions regarding the proposed project's potential to create a bird/aircraft strike h
	8 Deer auto Collision		This section consists of questions related to fence alignments and other construction methods which con
	9 Aesthetics		This section addresses aesthetics of surrounding area.
	10 Storm Water and Wastewater		This section addresses the proposed project's expected impact on storm water and wastewater manager
	11 Pesticides		This section addresses the application of pesticides and the proposed project's consistency with the bas
	12 Hazardous Waste and Materials		This section addresses the authorization, use, and handling of all hazardous materials as well as the pro
	13 Polychlorinated Biphenyls (PCB)		This section addresses the disposal of PCB and PCB-Contaminated material/equipment.
	14 Air Quality (Emissions)		This section addresses equipment and activities that impact air quality.
	15 Drinking Water		This section addresses compliance with the Safe Drinking Water Act, protection of Station groundwater i
	16 Petroleum Systems		This section addresses requirements for existing or proposed fuel storage tanks and fueling operations; r
	17 Oil Control		This section addresses the disturbance of or construction on oil contaminated sites and the notification p
	18 Groundwater Monitoring Wells		This section addresses the proposed project's impact on existing groundwater monitoring wells, the insta
	19 Asbestos		This section addresses issues that pertain to asbestos.
	20 Lead		This section addresses lead paint.
	21 Solid Waste and Recycling		This section addresses the disposal/recycling of solid waste, the disposal of excess materials through D
	22 Noise		This section addresses noise.
	23 Capital Improvements	2	This section addresses issues related to new construction, including floodplains, nuisance wildlife and in
	24 Installation Restoration		This section addresses the proposed project's access requirements and proximity to Installation Restora
	25 Socioeconomics		This section addresses socioeconomics.
	26 Traffic	5	This section addresses traffic.
	27 Environmental Justice	E	This section addresses environmental justice.
*	0		

Tabla

Environmental Impact Analysis Process (EIAP)

Checklist Database - Questions

	PILLAR	SECTION	QUESTNUM	QUESTIONTEX	YES	NO	DK	MESSAGEY	MESSAGEN	MESSAGEDK	ETYPE
	1	1	1	Will the propose	93	20	16			You will need to dete	
	1	1	2	Is the area of di:	3	3	3	You must subm		You will need to dete	
20	1	1	3	Is the proposed	4	11	11	You will need to		Contact your installa	["land_reclamation_project_site","s
2	1	1	4	Has a delineatic	5	5	5	If a delineation h	You will need to	Contact your agency	["shoreline_buffer_critical_area","lar
	1	1	5	Will streams or	6	11	6	You will need to		Contact your installa	["shoreline_buffer_critical_area","lar
	1	1	6	Is the proposed	7	11	7	You will need to	You must obtain	Contact your installa	["shoreline_buffer_critical_area","lar
	1	1	7	Can the project	8	11	8	Applicable Gene	You must obtain	Contact your installa	["shoreline_buffer_critical_area","lar
	1	1	8	Does the applic	9	9	9	Notification mus		Contact your installa	["shoreline_buffer_critical_area","lar
	1	1	9	Does the applic	10	10	10	You must apply		Contact your installa	["land_reclamation_project_site","w
	1	1	10	Does the applic	11	11	11	You may not pri		Contact your installa	["industrial_waste_discharge_point"
	1	1	11	Is the proposed	17	12	12	Contact your ins	A reconnaissan	Contact your installa	["cultural_probable_sensitive_site",'
	1	1	12	Is the proposed	13	13	13	Proceed to dete	A reconnaissan	Contact your installa	["cultural_probable_sensitive_site",'
	1	1	13	Is the proposed	14	17					["surface_water_body_area","cultur



Environmental Pillar No. 1 -

Section No.	Section Servation	Number of Questions
1	Soil Disturbance	19
2	Critical Area and Coastal Zone	4
3	Historic Preservation	5
4	Endangered Species	2
5	Land Use	2
6	Tree Clearing	3
7	Bird/Aircraft Strikes	3
8	Deer Auto Collision	3
9	Aesthetics	1

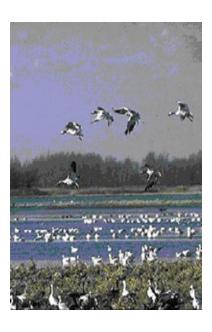
Scilication Section ds in Spail, Disturbance Permits, Water Quality Certifications, Archaeological Surveys, National Register Eligibility, Agricultural Land Leases, and Prime/Unique Farmland Soils.













- Chacklista Santiona Lat Zonitiman agence Act Country February Consistency Determinations.
 - Critical Area Example Chesapeake Bay Critical Area Protection Program.
 - ■100-foot Naturally Vegetated, Forested buffer landward from Mean High Water Line of Tidal Waters or from Edge of Tidal Wetlands and Tributary Streams.









Structures eligible for National Register of Historic Places.

- Authorized under National Historic Preservation Act of 1966.
- Includes districts, sites, buildings, structures, and objects significant in American history, architecture, archeology, engineering, and culture.

Administered by U.S. Department of











Crientialistepsetstin Rate. Threatingered Species.

- Endangered Species Act of 1973.
 - Defined categories of "endangered" and "threatened" species.
 - Plants and all classes of invertebrates are eligible for protection.
 - All Federal agencies required to undertake programs for conservation of endangered and threatened species, and



Proposed Project's Compatibility with Organization's (e.g., Military Base) Integrated Natural Resources







Change I State (Timber), and Impacts associated with

Migrander ct.







Checket stoget single attable at the chiff strates strike hazard and use of bird repellent or exclusion

devices to minimum aft str











Checklightsetain Sher Coestaution Methods which could Impact Movement of Wildlife (especially











Anthorius (Vsual Appregrange) stressounding Area.

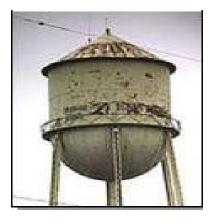














Environmental Pillar No. 2 -

Section No.	secompliance	No. of Questions
10	Storm Water and Wastewater	5
11	Pesticides	3
12	Hazardous Waste and Materials	4
13	Polychlorinated Biphenyls (PCB)	1
14	Air Quality (Emissions)	9
15	Drinking Water	5
16	Petroleum Systems	7
17	Oil Control	4
18	Groundwater Monitoring Wells	4
19	Asbestos	2
20	Lead	2

Checketi Project eigenperted Engagenouvateem Water and Wastewater Management.









Consistency with Organization's (e.g., Military Base) Integrated Pest Management Plan.









Eutheniaisiprs deciend Handling 2 and dus awayse Material as well as Proper Treatment, Storage, and Disposal of Hazardous Waste.













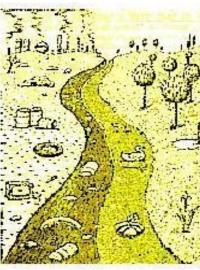












CinecalistPSEcuidRCB3ContentiveAtterinated Bateriel(PCB)

CAUTION CONTAINS PCBs
(Polychlorinated Biphenyls)
FOR DISPOSAL INFORMATION
CONTACT U.S. ENVIRONMENTAL
PROTECTION AGENCY





PCBs

(Polychlorinated Biphenyls)

A toxic environmental containment requiring special handling and disposal in accordance ith U.S. Environmental Protection Agency Regulations 40 CFR 761-For Disposal Information contact the nearest U.S. E.P.A. Office.

In case of accident or spill, call toll free the U.S. Coast Guard National Response Center 800 424-8802

Also Contact



Equipment to great the post of the post of

(Emissions)

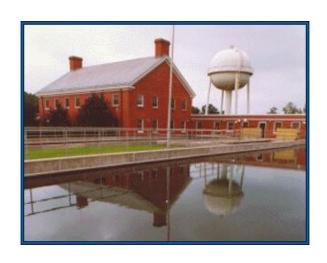


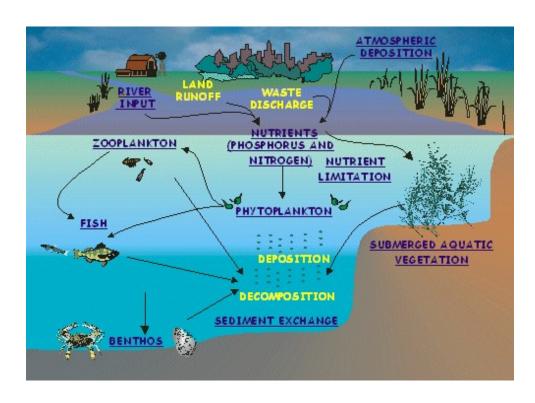






Compliance with Engalish Drinking Water Age tweetion of Groundwater Resources, and Water Conservation Requirements and Practices.





Tanks and Fueling Operations; new or Existing Heating Oil, Fuel Oil, and Jet Fuel Requirements; and Permits Required for Removal or Installation of new Fueling Talions.







Sites and the Notification Procedures Required by





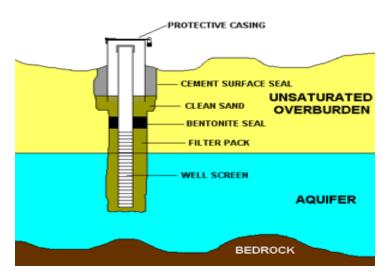




Abacklist Special Project's Groundwatesting Monitoring Wells, the Installation of New Wells, the Removal of Existing Wells, and all

Required Permits.

MONITORING WELL

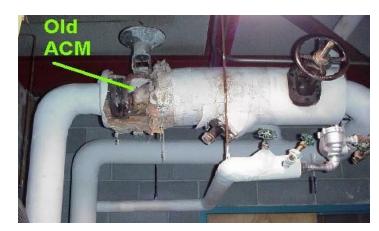






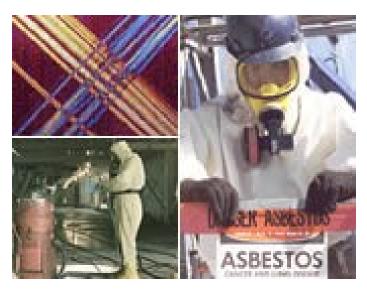
Environmental Pillar No. 2 - Compliance

Checklist Petien Algest Asbestos











Environmental Pillar No. 2 - Compliance

Checklist Pestion 129d-Plinad





Environmental Pillar No. 3 - Pollution Prevention

Section No.	Section Theme	No. of Questions
21	Solid Waste and Recycling	1
22	Noise	2



Environmental Pillar No. 3 - Pollution Prevention

Checklist Section 21 Waste, the Disposar of Recess Magerials through Defense Reutilization and Marketing Office (DRMO), and the Affirmative Procurement Program ycled).









Environmental Pillar No. 3 - Pollution Prevention

Checklist Section 22 Noise Noise













Environmental Pillar No. 4 Restoration

Section No.	Section Theme	No. of Questions
23	Capital Improvements	4
24	Installation Restoration	4



Environmental Pillar No. 4 - Restoration

Freeklistes 46 New Construction, including more wildlife, and Indirect

Impacts to Structures Eligible for the Name Register of Historic Places.



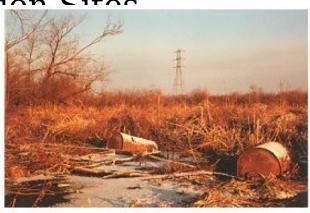


Environmental Pillar No. 4 - Restoration

Checklist Section 24 Requirements and Restonation Sitos











Environmental Pillar No. 5 -Other

Section No.	Section Theme	No. of Questions
25	Socioeconomics	3
26	Traffic	1
27	Environmental Justice	1



Environmental Pillar No. 5 - Other Checklist Section 25 - Socioeconomics

Effects of Changes in Social and Economic Factors on Individuals and Communities. If Economic needs are Met, People are Attracted to, and become rooted in,

areas of high environment



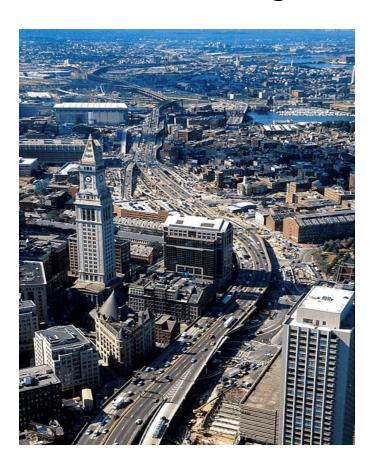






Environmental Pillar No. 5 - Other Checklist Section 26 - Traffic

Issues concerning Traffic.







Environmental Pillar No. 5 - Other Checklist Section 27 - Environmental

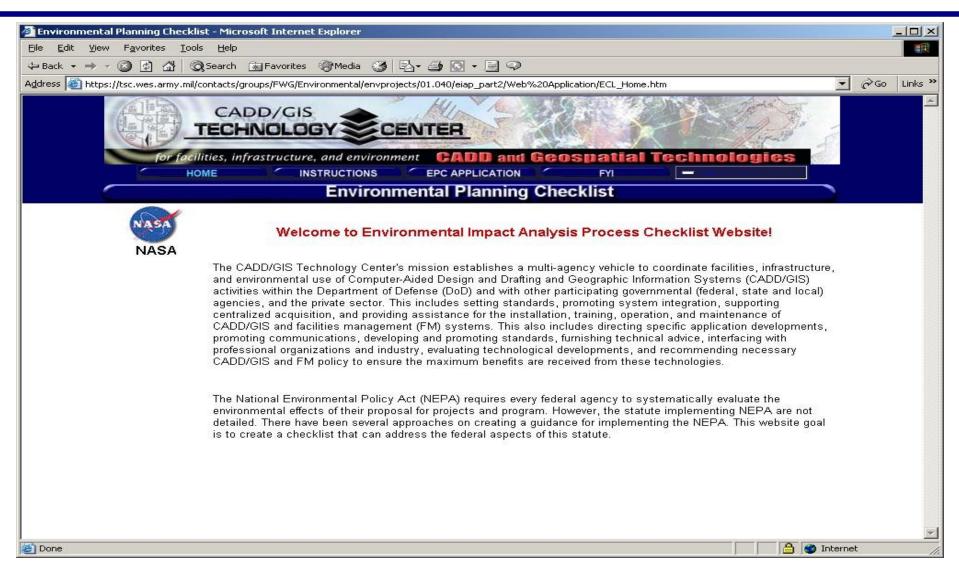
defines EJ as the "fair treatment for people of all races, cultures, and incomes, regarding the development of environmental laws, regulations, and policies".

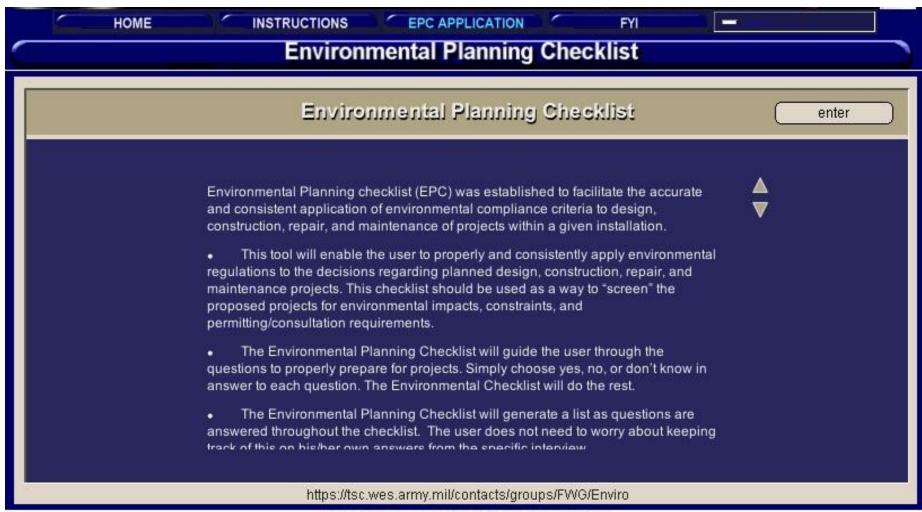
environmenta "Each Federal agency Welcome to the U.S. Department of Transportation Environmental Justice website. shall make achieving environmental justice part of its mission by identifying and addressing An Overview of Transportation as appropriate, and Environmental Justice disproportionately high A 1994 Presidential Order directed and adverse human health or environmental effects every Federal agency to make of its programs, policies, environmental justice part of its and activities on minority mission. The DOT is committed to a populations and low-income populations." comprehensive, inclusive Executive Order 12898. approach. Get the basics here. Federal Actions to Address Environmental Justice in Minority Populations and Low - Income Populations, 1994

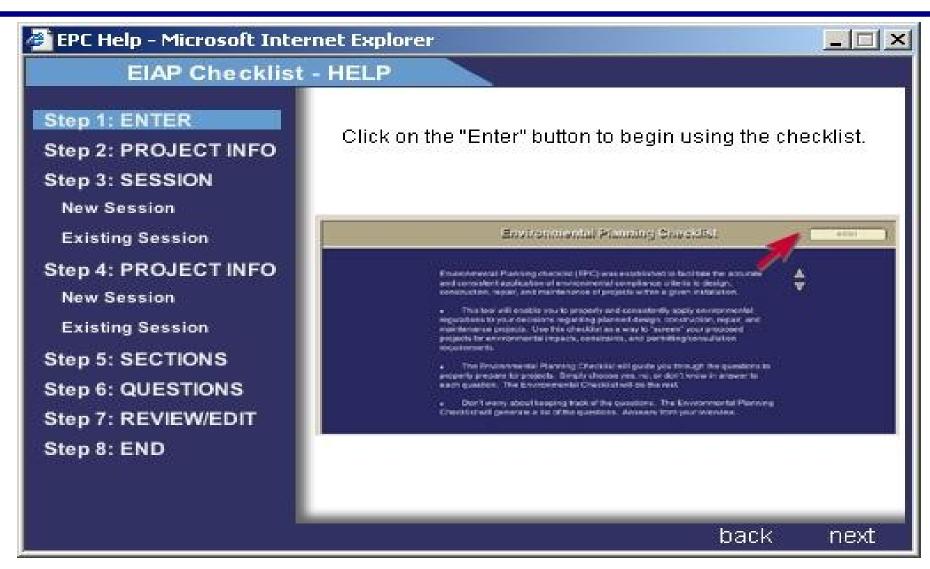


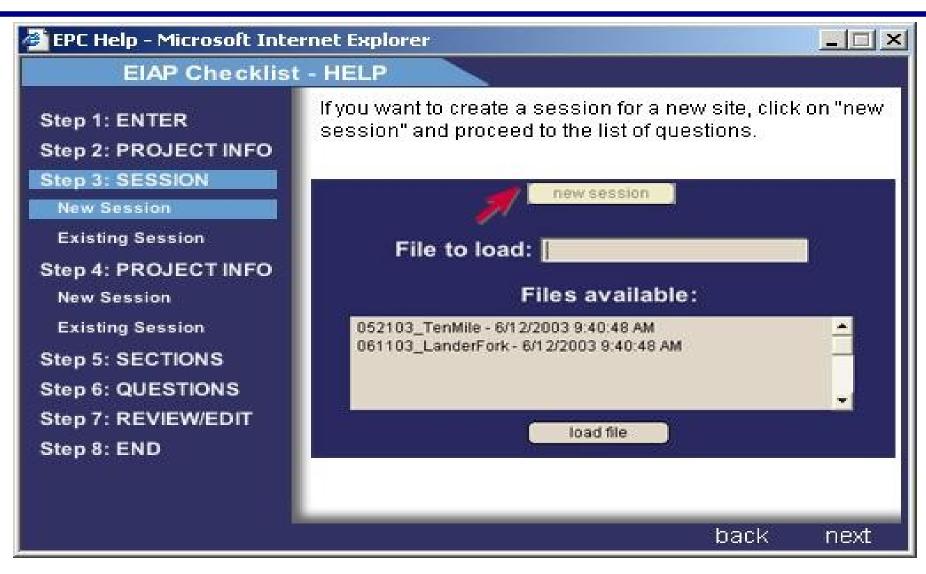


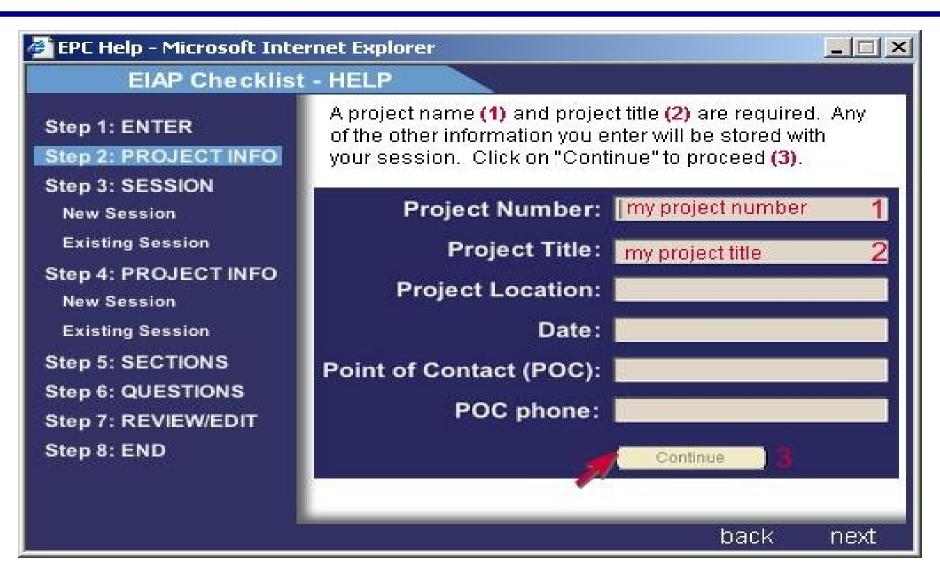


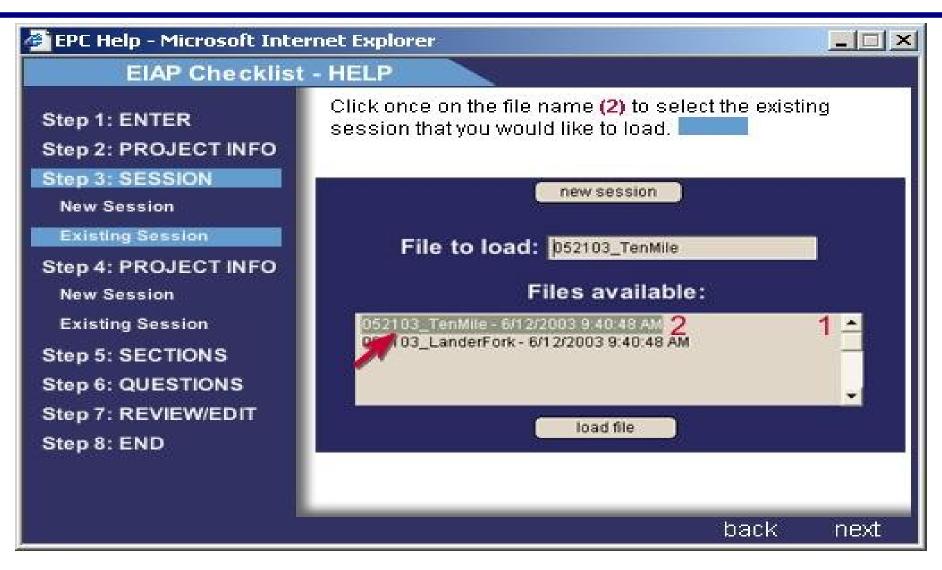


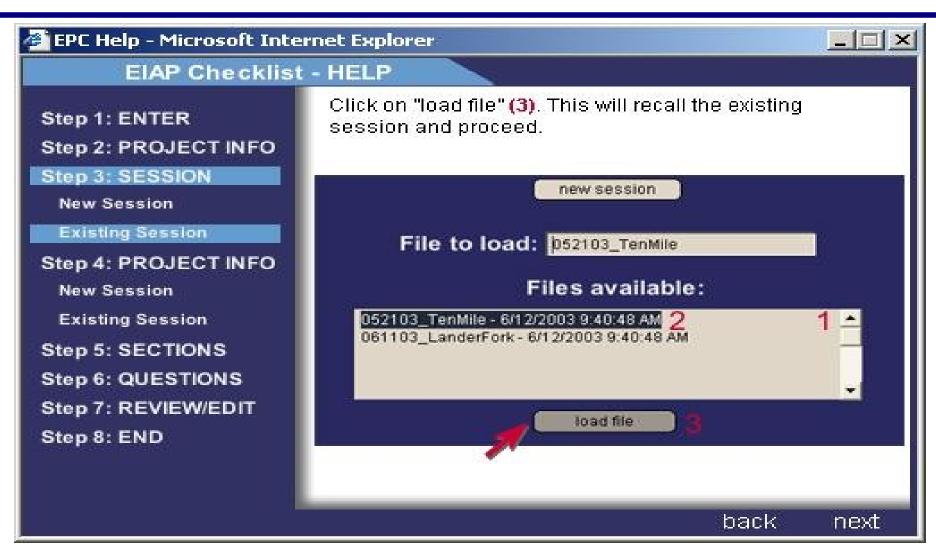


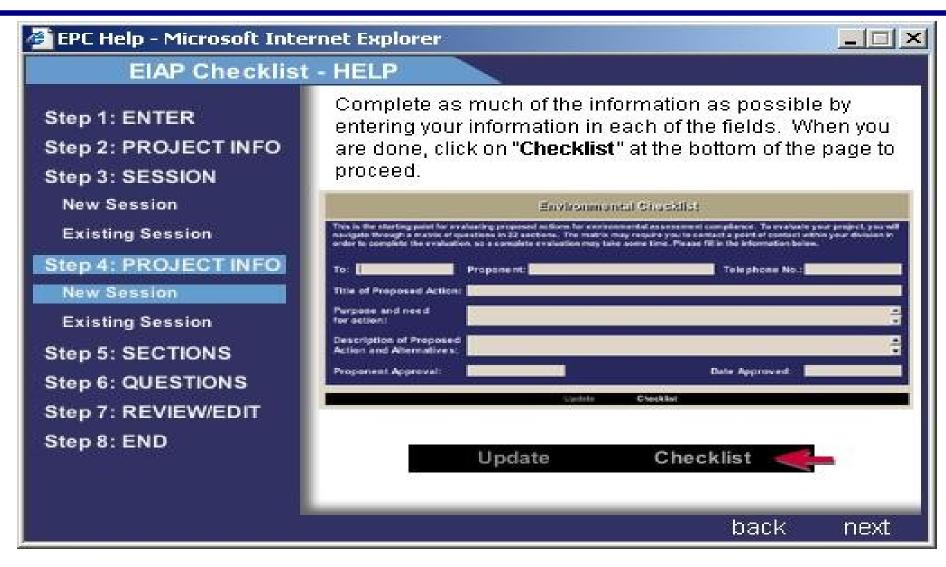




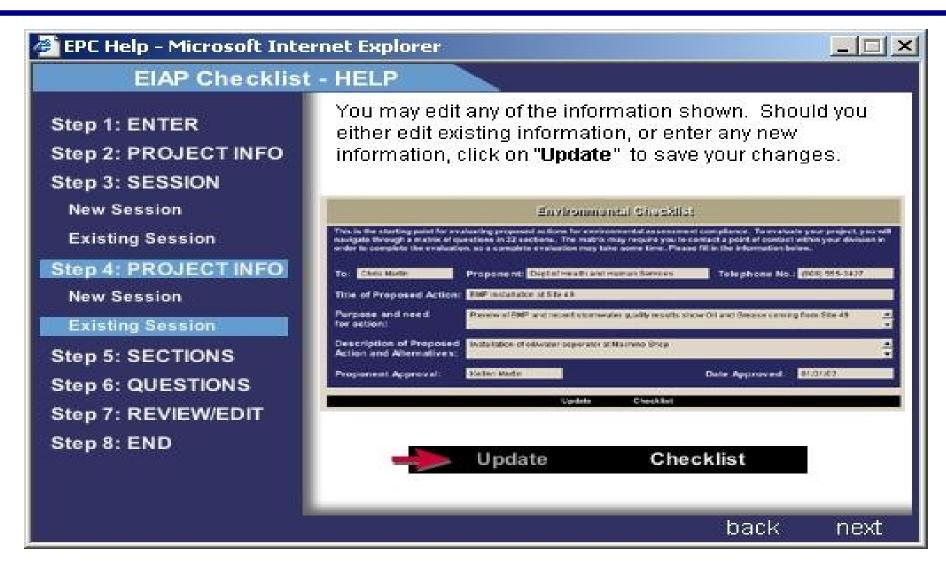


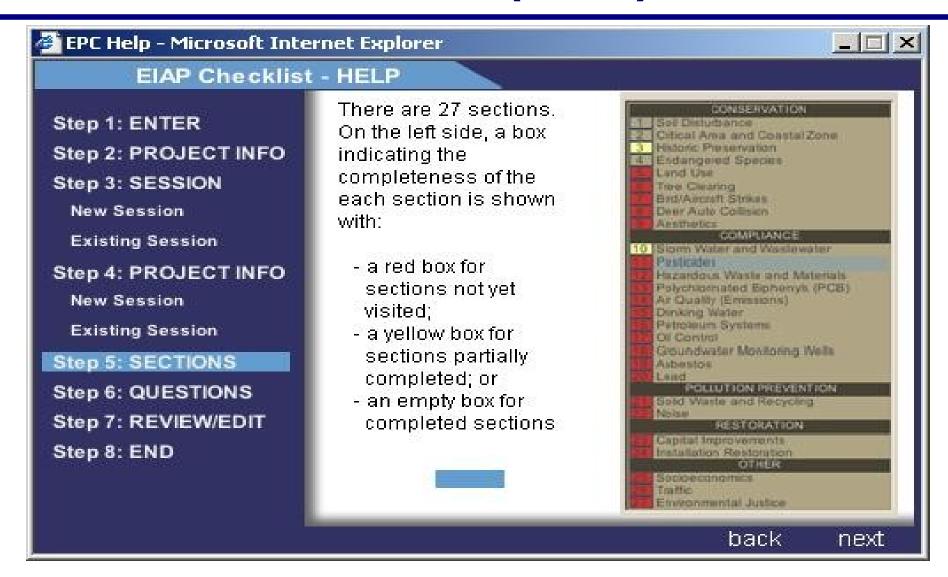


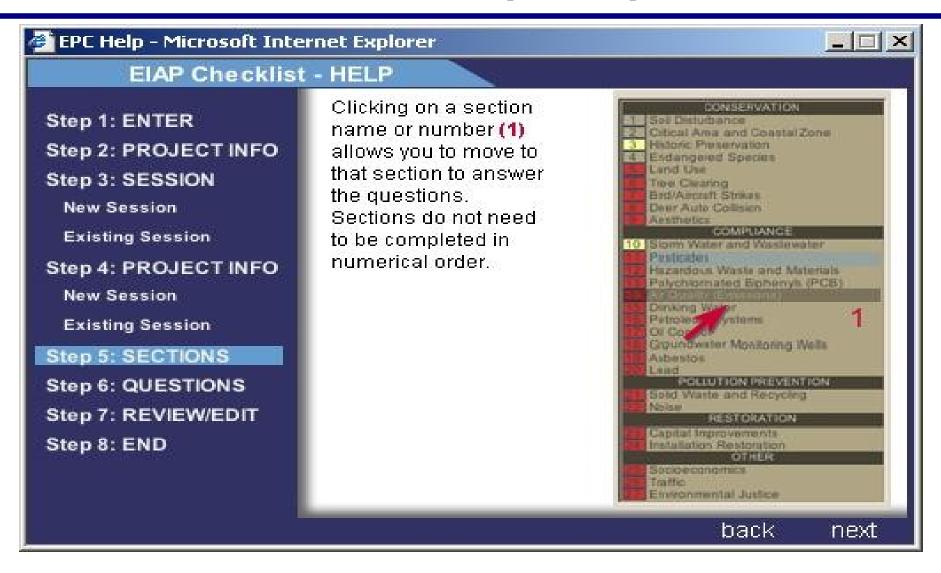


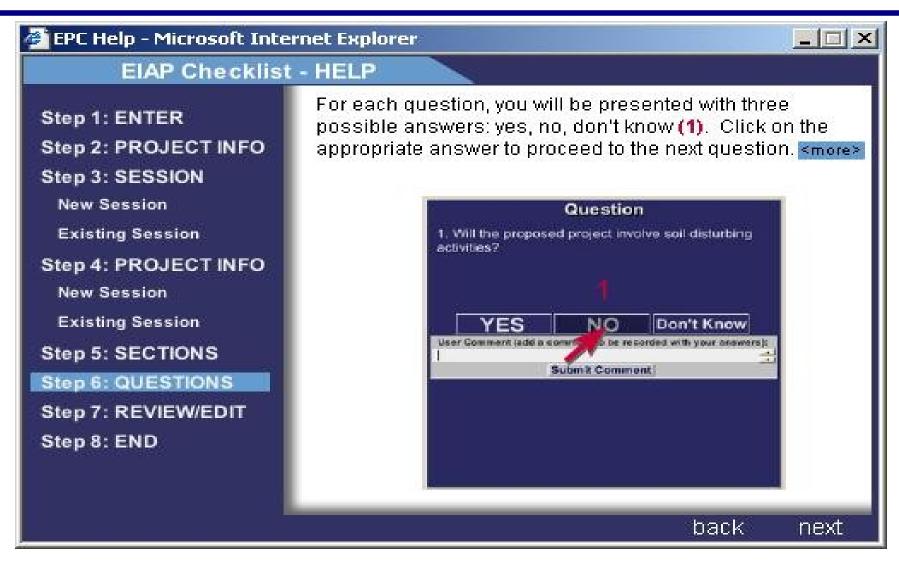


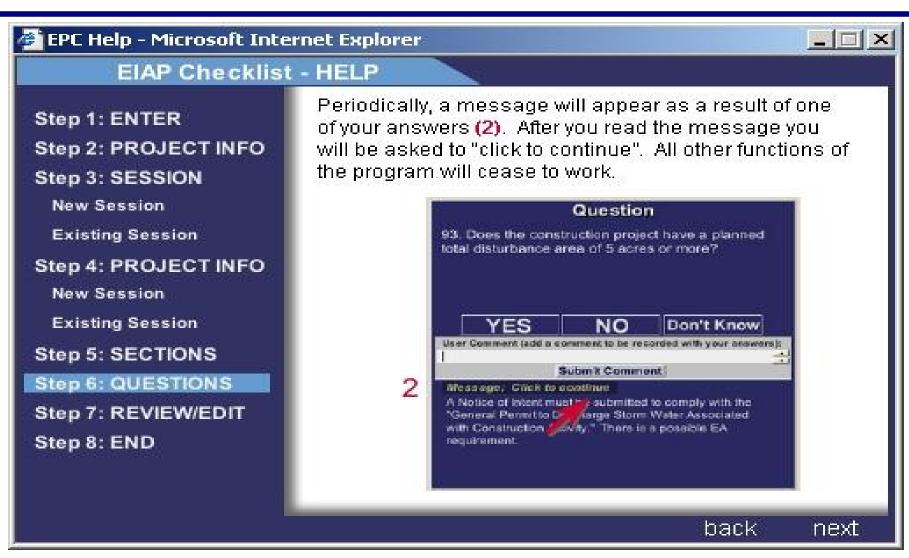
	Environmental Pl	anning Checklist	
navigate through a matrix of q	uestions in 27 sections. The matrix ma	mental assessment compliance. To evaluate your projec ay require you to contact a point of contact within your div some time. Please fill in the information below.	
To:	Proponent:	Telephone No.:	
Title of Proposed Action			
Purpose and need for action:			Ā
Description of Proposed Action and Alternatives:			A V
Proponent Approval:		Date Approved:	
	Update	Checklist	



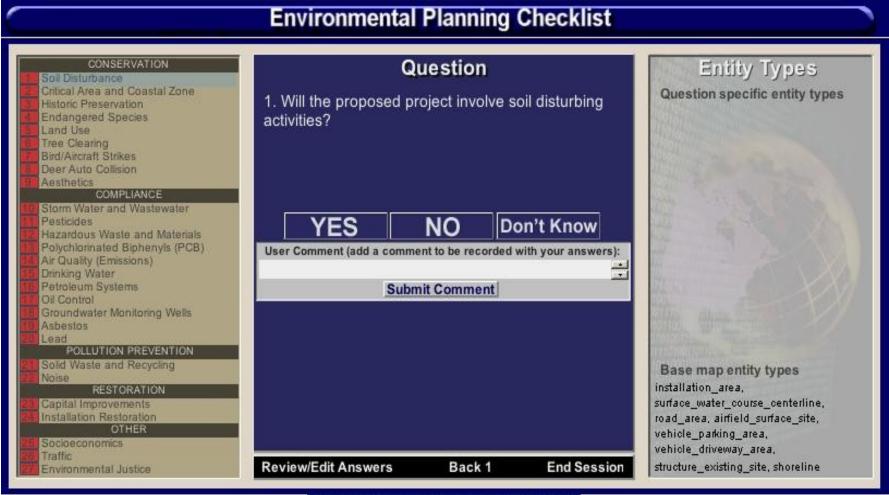


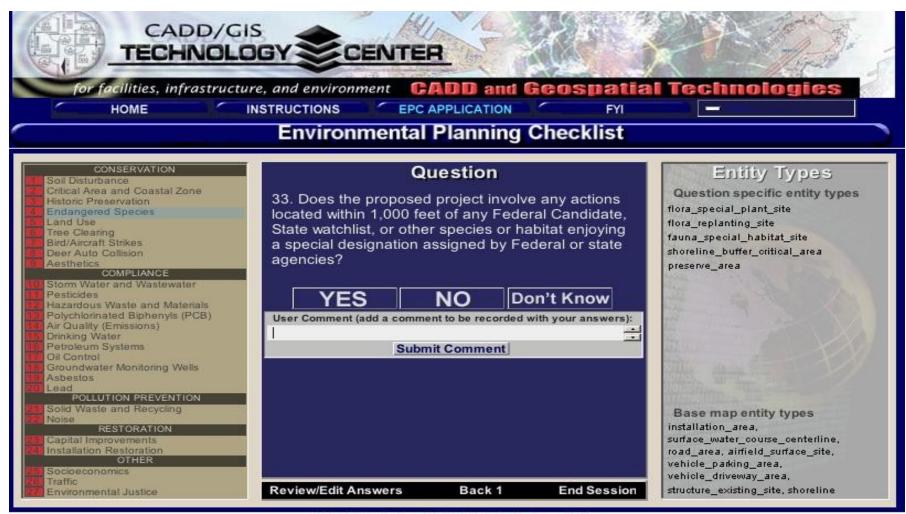


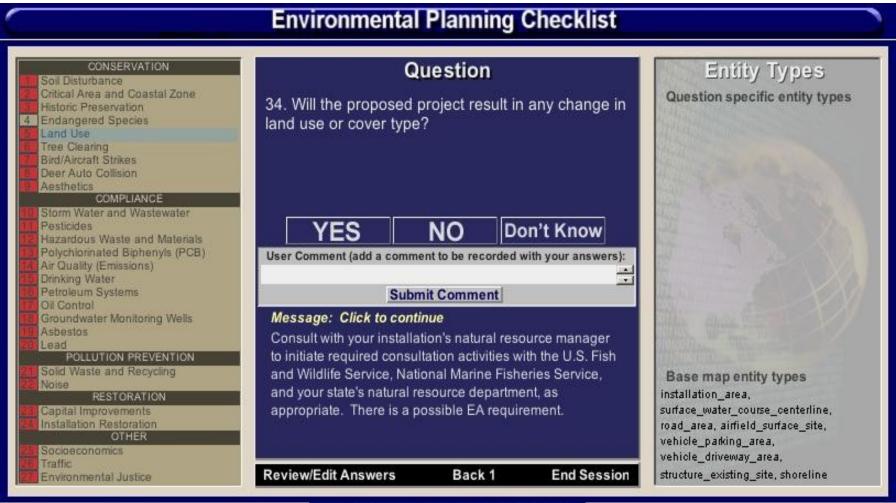


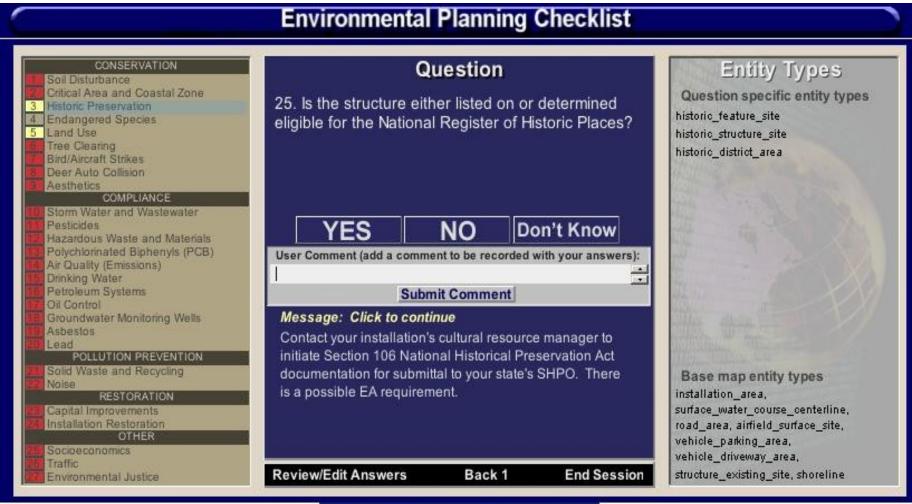


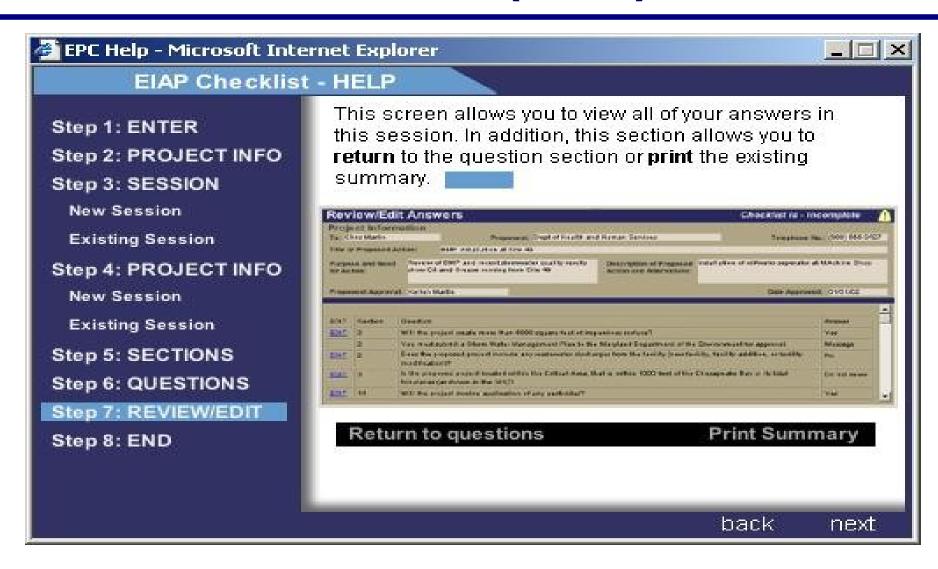
Environmental Planning Checklist CONSERVATION **Environmental Planning Checklist** Sail Disturbance Critical Area and Coastal Zone Historic Preservation Endangered Species Land Use < Select a section from the list at left. Tree Clearing Bird/Aircraft Strikes Deer Auto Collision You may begin in any of the available 27 sections. Aesthetics COMPLIANCE Storm Water and Wastewater As you proceed through the checklist, you will see the following symbols Pesticides indicating your progress in each section: Hazardous Waste and Materials Polychlorinated Biphenyls (PCB) Air Quality (Emissions) Drinking Water Petroleum Systems Section not yet visited Groundwater Monitoring Wells Section partially completed -Asbestos Lead Section completed POLLUTION PREVENTION Solid Waste and Recycling Noise Capital Improvements < When you see this icon, place you mouse over the icon to see special</p> Installation Restoration OTHER instructions. Socioeconomics Environmental Justice

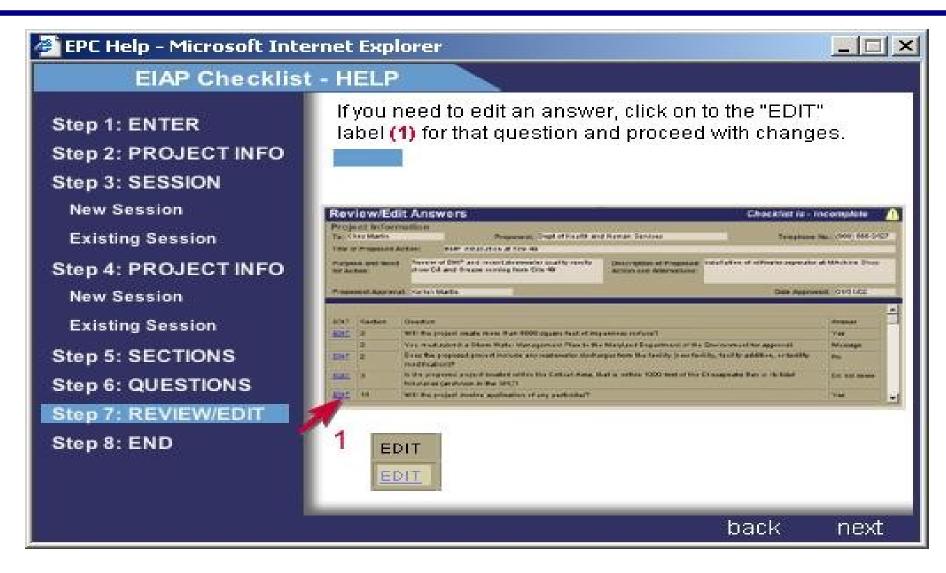




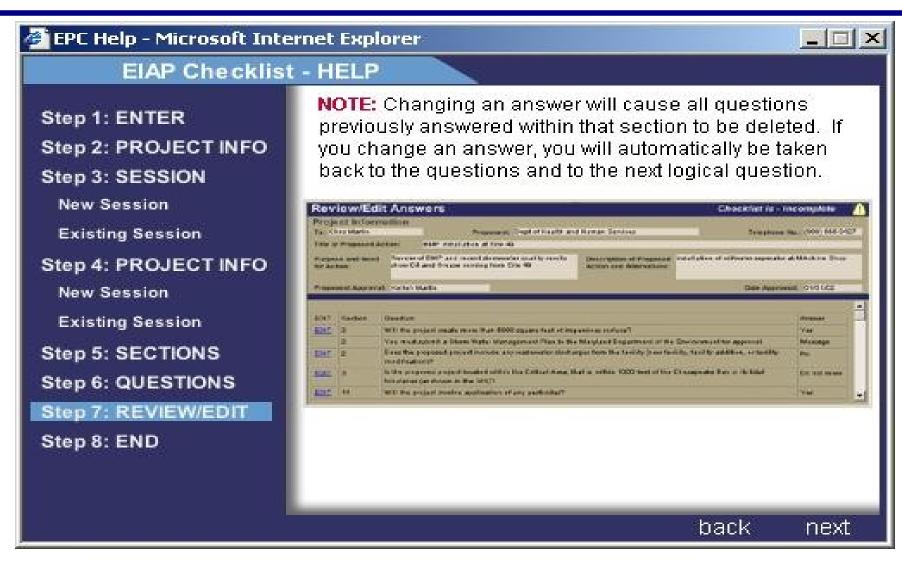


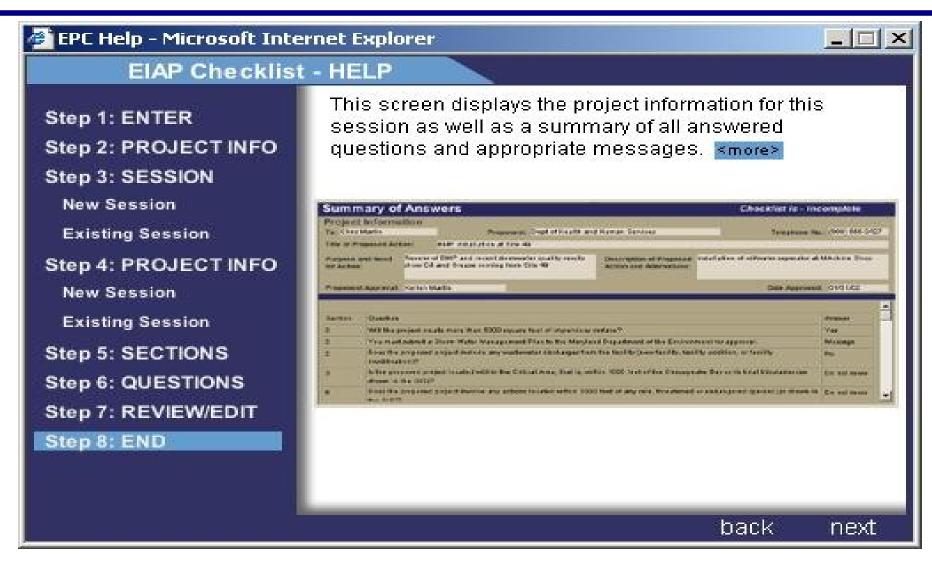


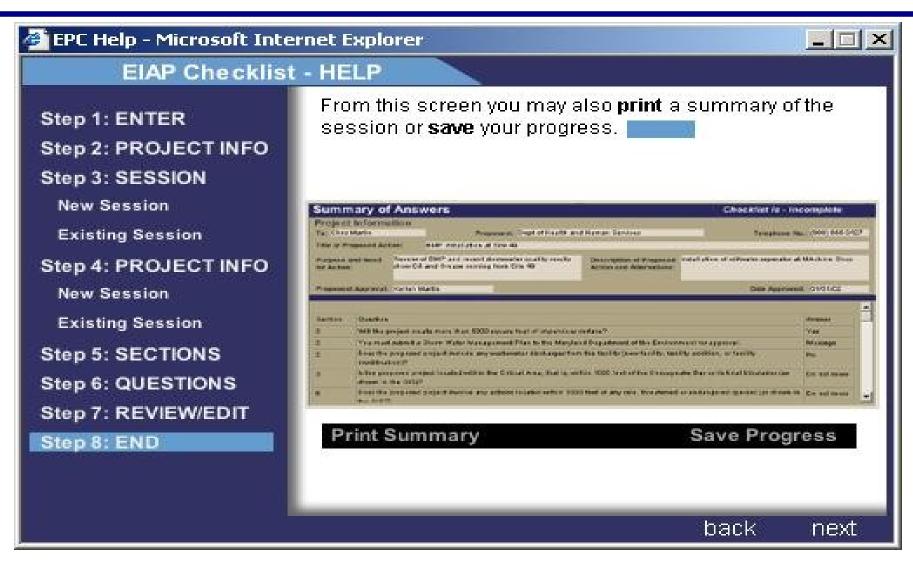




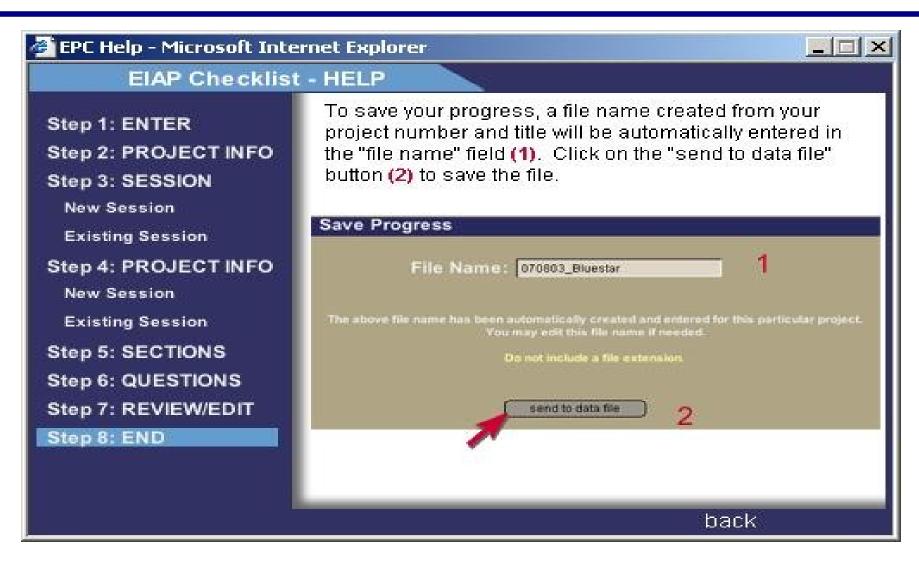








Summ	nary of Answers			Checklist is - inc	omplete
Project	t Information	Proponent: -		Telephone No.	:-
Title of P	roposed Action: -				
Purpose for Action	and Need		Description of Proposed Action and Alternatives:		
Proponer	nt Approval:	116		Date Approved:	-
Section	Question				Answer
Section 3		erations, maintenance, or repair	s to an existing structure?		Answer Yes
To a second	Does the project involve alte		rs to an existing structure? to alteration are listed or eligible for listing on		
3	Poes the project involve alter You will have to determine the Historic Places.	whether the structure(s) subject		the Natural Register of	Yes
3	Poes the project involve alter You will have to determine the Historic Places. Is the structure either listed of Contact your installation's cu	whether the structure(s) subject on or determined eligible for th	to alteration are listed or eligible for listing on e National Register of Historic Places? iate Section 106 National Historical Preservatio	the Natural Register of	Yes Message





Improve Web-Based EIAP:

- Migrate EIAP Web-Based Application to Navy/Marine Corps Intranet (NMCI) Compliant Platform.
 - Based upon Microsoft .NET Technology.
- Develop More Comprehensive EIAP Checklist.
 - Current EIAP Checklist originated from Air Force (Robins AFB) & Navy (Patuxent River Naval Air Station) Installations.
 - Incorporate Additional Requirements (e.g., Army & U.S. Army Corps of Engineers).

GIS-Enabled EIAP:

- Partner with Commercial GIS Software Vendors and Other Agencies for Integration with SDSFIE Compliant GIS.
 - Bureau of Land Planning (BLM)/ESRI ePlanning Initiative.



ePlanning



- ePlanning E-Gov for Planning and NEPA.
- Bureau of Land Management (BLM) (U.S. Department of Interior) Initiative.
- BLM partnering with ESRI.
- Provides Ability to View Dynamic, web-based NEPA & Land Use Planning Documents and Geospatial Maps Related to these Documents.
- Software Tools ESRI ArcIMS
 and ArcSDE







Steps for NEPA Compliand

- 1. Receive Mission/Project Assignment.
 - If construction, earth disturbance, or environmental disturbances are involved, you are in NEPA Process.
- 2. Assess Potential Environmental Impacts of Proposed Project. (Center EIAP)
- 3. Compare and Evaluate Potential Environmental Impacts of Alternative Courses of Action. (Center EIAP)
- 4. Prepare NEPA Document Comparing Potential Environmental Impacts of each Alternative Course of Action.
- 5. Receive Comments and Input from Stakeholders (Federal, State, & Local Government & Public). (ePlanning)
- 6. Record Final Decision (called Record of Decision (ROD). (ePlanning)
 - NEPA Document (EA or EIS) and ROD are part of Administrative Record.



QUESTIONS?

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